



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Public Works Local Area Network Purchase Concept

MEETING DATE: December 18, 1991

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council authorize staff to proceed with the acquisition of a microcomputer local area network at a cost not to exceed \$30,000.

BACKGROUND INFORMATION: As part of the 1991/92 operating budget, the City Council approved the purchase of a microcomputer local area network for the Public Works Department. This purchase was a major part of the previously approved switch from a minicomputer-based, limited use, drafting system to a more flexible, less expensive microcomputer-based system. This switch was approved by the Council in March 1991 (Exhibit A).

The budget request for the network (Exhibit B) was for \$49,000. In light of budget restrictions, it was decided to phase the work; thus \$30,000 was approved in the budget with the following funding:

\$7,500	Sewer Fund
\$7,500	Water Fund
\$7,500	Gas Tax
\$7,500	Equipment Fund

Now that we have completed the drafting switch to microcomputers, the need for the local area network to share drawings and the plotter is more critical than ever. In our budget request we assumed we would go to bid for a complete turn-key package. However, through our research and preparatory training we have concluded that the City would be better served by purchasing the various system components separately and setting up the network ourselves. We would still obtain price quotes on the components from various vendors. We will save resale markup and installation costs. We will also be able to select and purchase the components on our schedule rather than specifying and purchasing everything in one lump sum. We propose to make limited use (not to exceed \$2,000) of a local consultant to help select some of the hardware and assist in the initial set up.

In this way, our staff will have a much better knowledge of the system and will be able to add users and make system changes without an expensive on-going support contract. Thus we will save money in the long run as well as in the short term.

APPROVED

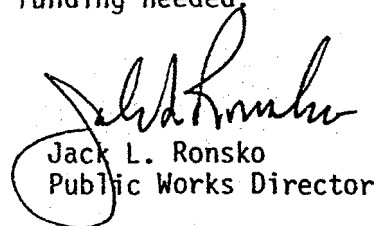
THOMAS A. PETERSON

recycled paper

The components of the system will cost less than \$5,000 apiece, so our normal informal purchasing procedures can be used. However, we do wish to obtain Council approval for the specifying of a Hewlett-Packard (HP) file server. The file server is the **most** critical component of the system and HP is well known for reliability and quality. All the existing microcomputers to be networked are made by HP, thus network administration will be simpler.

The network project includes some new work stations. For this and for future new microcomputers to be added to the network, we wish to investigate the use of "clone" machines in order to reduce costs. In order to be consistent with either our system or the Finance and Personnel departments*, we **ask** that Council limit the specification to either HP or HIQ microcomputers. The purchase of HIQ computers for Finance and Personnel was recently approved **by** the City Council.

FUNDING Sewer, Water, Gas Tax and Equipment funds (25% each, already included in budget). No additional funding needed.



Jack L. Ronsko
Public Works Director

Prepared by Richard C. Prima, Jr., Assistant City Engineer

JLR/RCP/lm

Attachments

cc: City Attorney
Purchasing Officer

COUNCIL COMMUNICATION

PUBLIC WORKS DEPARTMENT

REQUEST
1991 - 1992

NETWORK

Exhibit B

Fund Code: See Below

Account Code :

REPLACEMENT

Tax \$ 3,000
Trade-in \$ -

Object Code:

JUSTIFICATION:

This request is for the purchase of hardware and software for a local area network (LAN) to interconnect the Department's microcomputers. This is needed in order to share data files, storage devices, and output devices. It will also provide an economical and efficient way to connect the Department's microcomputers to the AS/400. The system will be administered by existing Public Works staff with vendor support.

This item was conceptually approved by the MIS Committee last year. At that time, a number of basic criteria were still being considered. These have now been resolved as follows:

- ° Drafting System - Last year, the upgrade path for the drafting system consisted of three choices :
 - 1) Upgrade the existing HP 1000 microcomputer.
 - 2) Upgrade the Accugraph software to the next product line which would require new computers (UNIX-based workstations).
 - 3) Switch to AutoCAD which would run on PCs or workstations.We have determined that AutoCAD on PCs is a viable, lower-cost solution.
- ° File Server - Without the need to connect the HP 1000 or a workstation, a PC-based file server is the appropriate choice.
- ° Network Software - Based on the Electric Utility Department's choice in network software, recent announcements by both Hewlett-Packard and IBM, and reviews and articles in industry publications, we are comfortable with Novell Netware.
- ° Wiring - With completion of the City Hall addition still two years away, we propose to use low-cost, unshielded, twisted pair wiring, surface-mounted.

This proposal also includes additions to the drafting system which will provide a system comparable to the old system we are in the process of replacing. It will also add a program module (WildCAD) to the surveying system that will integrate it with the drafting system (AutoCAD).

RESOLUTION NO. 91-235

A RESOLUTION OF THE LODI CITY COUNCIL
APPROVING THE PURCHASE OF A LOCAL AREA NETWORK
FOR THE LODI PUBLIC WORKS DEPARTMENT

WHEREAS, Lodi Municipal Code, Section 3.20.070 authorizes dispensing with bidding procedures for purchases of supplies or property when the City Council determines that the purchase or method of purchase would be in the best interests of the City;

NOW, THEREFORE, BE IT RESOLVED, that the Lodi City Council hereby approves the specification of a Hewlett-Packard file server and either Hewlett-Packard or HIQ micro computers for the Public Works Department. Hewlett-Packard has previously been specified for the Public Works Department and has provided quality equipment and service. HIQ of Sunnyvale, California, with a service outlet in Stockton, California, has been recommended by the City's contracted consultant, Morada Corporation of Lodi, based on HIQ's price and ability to service their equipment locally, and HIQ is also furnishing equipment to the Finance and Personnel Departments.

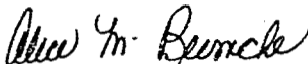
Dated: December 18, 1991

I hereby certify that Resolution No. 91- was passed and adopted by the Lodi City Council in a regular meeting held December 18, 1991 by the following vote:

Ayes: Council Members - Pennino, Sieglock, Snider and Pinkerton
(Mayor)

Noes: Council Members - None

Absent: Council Members - Hinchman


Alice M. Reimche
City Clerk

91-235

RES91235/TXTA.02J